

WHAT IS CLAIMED IS:

1. A tubeless tire wherein an air chamber is formed between  
an inner face of a tire body and a rim thereof, by mounting said tire body  
5 to the periphery of said rim; and  
a gas barrier layer comprising a gas barrier resin composition,  
containing an inorganic layered compound having a particle size of at  
most 5  $\mu\text{m}$  and an aspect ratio of 50 to 5000 and a resin, is formed on  
said inner face of said tire body.

10

2. The tubeless tire of Claim 1, wherein a gas barrier layer  
comprising a gas barrier resin composition, containing an inorganic  
layered compound having a particle size of at most 5  $\mu\text{m}$  and an aspect  
ratio of 200 to 3000 and a high hydrogen bond resin, is laminated as a  
15 coating film.

3. The tubeless tire of Claim 2, wherein the content of said  
inorganic layered compound is 3 to 70 % in weight ratio of the total  
weight of said inorganic layered compound and said high hydrogen bond  
20 resin.

4. The tubeless tire of Claim 2, wherein said high hydrogen  
bond resin is polyvinyl alcohol.

25 5. The tubeless tire of Claim 1 comprising a gas barrier layer  
on the inner face of an inner liner layer;  
wherein said inner liner layer comprises a rubber composition

containing as rubber components,

60 to 100 % by weight of at least one kind of butyl rubber selected from the group consisting of butyl rubber, halogenated butyl rubber and a halogenated copolymer of isomonoolefin having 4 to 7 carbon atoms and  
5 paraalkylstyrene, and

0 to 40 % by weight of at least one kind of diene rubber selected from the group consisting of natural rubber, isoprene rubber, styrene-butadiene rubber, butadiene rubber and styrene-isoprene-butadiene rubber.

10                 6. The tubeless tire of Claim 5, wherein said gas barrier layer is formed on said inner face of said inner liner layer via an anchor coat layer.

15                 7. The tubeless tire of Claim 5, wherein said inner liner layer comprises a rubber composition wherein  
an inorganic layered compound having a particle size of at most 5  $\mu\text{m}$  and an aspect ratio of 50 to 5000, which is dispersed in said rubber component,  
an inorganic filler represented by  $nM \cdot x\text{SiO}_y \cdot z\text{H}_2\text{O}$  (herein n represents an  
20 integer of 1 to 5, M represents at least one metal selected from Al, Mg, Ti and Ca, or metal oxide, metal hydroxide or metal carbonate thereof, x represents an integer of 0 to 10, y represents an integer of 2 to 5 and z represents an integer of 0 to 10) and  
a silane coupling agent.

25

8. The tubeless tire of Claim 1 comprising a gas barrier layer on the inner face of a carcass layer;

wherein said carcass layer comprises a rubber composition wherein an inorganic layered compound having a particle size of at most 5  $\mu\text{m}$  and an aspect ratio of 50 to 5000, which is dispersed in said rubber component,

- 5    an inorganic filler represented by  $nM \cdot x\text{SiO}_y \cdot z\text{H}_2\text{O}$  (herein n represents an integer of 1 to 5, M represents at least one metal selected from Al, Mg, Ti and Ca, or metal oxide, metal hydroxide or metal carbonate thereof, x represents an integer of 0 to 10, y represents an integer of 2 to 5 and z represents an integer of 0 to 10) and
- 10   a silane coupling agent.

9. The tubeless tire of Claim 5, wherein said inorganic layered compound is a clay mineral having swellability, that is swelled and cleaved in a solvent, and

- 15   said resin is a high hydrogen bond resin comprising polyvinyl alcohol or polysaccharide; and  
in said gas barrier layer, said inorganic layered compound and said resin are mixed in a volume ratio of 5/95 to 90/10.

- 20         10. The tubeless tire of Claim 5 or 8, wherein said gas barrier layer is obtained by  
dispersing said inorganic layered compound in said resin or a resin solution in a state of being swelled or cleaved in a solvent,  
applying said solution to the inner face side of said inner liner layer  
25   while maintaining said state, and  
removing said solvent.

11. The tubeless tire of Claim 10, wherein said gas barrier layer has a thickness of at most 0.5 mm.

12. The tubeless tire of Claim 7, wherein the content of said  
5 inorganic filler is at least 10 parts by weight based on 100 parts by weight of said rubber component.

13. The tubeless tire of Claim 7, wherein the content of said inorganic layered compound included in said rubber composition is 0.5  
10 to 20 parts by weight based on 100 parts by weight of said rubber component.

14. The tubeless tire of Claim 7 or 8, wherein said inorganic layered compound included in said rubber composition is organically  
15 treated.

15. The tubeless tire of Claim 8, which has no inner liner.